

**XP-002169509**

**AN - 1997-384110 [35]**

**AP - SU19915000004 19910726**

**CPY - SOKO-I**

**DC - A23 A85 L03 V04**

**DR - 1893-U**

**FS - CPI;EPI**

**IC - H05K1/03 ; H05K3/00**

**IN - SOKOLINSKAYA M A; TSYBULYA YU L; ZABAVA L K**

**MC - A08-R A11-B09A1 A12-E07A A12-S08C A12-S08D2 A12-S08F L03-H04E5  
- V04-R07A V04-R07L V04-R07P**

**PA - (SOKO-I) SOKOLINSKAYA M A**

**PN - RU2072121 C1 19970120 DW199735 H05K3/00 005pp**

**PR - SU19915000004 19910726**

**XA - C1997-123065**

**XIC - H05K-001/03 ; H05K-003/00**

**XP - N1997-319806**

**AB - RU2072121 A substrate for a printed circuit board, has a multi-layer structure of chips of basalt fabric impregnated with a polymer binder. The binder additionally contains boron nitride in the amount 2-10% by mass of the binder. The boron nitride is in the form of particles of 0.5-20  $\mu$  m and. The boron nitride is added to the binder and is mixed for at least 5 minutes, to ensure it is uniformly distributed through the mass of the binder. The obtained mixture is then used to impregnate basalt fabric, which is then dried at 80 deg. C for at least 60 minutes. The fabric is then cut into intermediate articles, which are assembled into a packet, to obtain insulating material with a thickness of 1.5 mm. This is then subjected to thermo-compression at 160 deg. C and 350 MPa for 60 minutes.**

**- USE - Manufacture of substrates for printed circuit boards.**

**- ADVANTAGE - Improved heat resistance and better thermo-physical and dielectric properties**

**- (Dwg.0/0)**

**IW - MANUFACTURE SUBSTRATE PRINT CIRCUIT BOARD ADD BORON NITRIDE POWDER  
POLYMER BIND IMPREGNATE BASALT FABRIC BIND**

**IKW - MANUFACTURE SUBSTRATE PRINT CIRCUIT BOARD ADD BORON NITRIDE POWDER  
POLYMER BIND IMPREGNATE BASALT FABRIC BIND**

**INW - SOKOLINSKAYA M A; TSYBULYA YU L; ZABAVA L K**

**NC - 001**

**OPD - 1991-07-26**

**ORD - 1997-01-20**

**PAW - (SOKO-I) SOKOLINSKAYA M A**

**TI - Manufacture of substrate for printed circuit board - includes addition of boron nitride powder to polymer binder and impregnation of basalt fabric by binder**

**A01 - [001] 018 ; P0000 ;**

**- [002] 018 ; ND01 ; K9892 ; K9449 ; K9518 K9483 ; K9676-R ; Q9999  
Q6791 ; Q9999 Q7454 Q7330 ; N9999 N7192 N7023 ; Q9999 Q7818-R ;  
N9999 N6780-R N6655 ; N9999 N6600 ; B9999 B5243-R B4740 ; B9999  
B3270 B3190 ; B9999 B4682 B4568 ; B9999 B3178 ; B9999 B3203-R B3190  
;**

**- [003] 018 ; D00 F80 Si 4A O- 6A ; A999 A419 ; S9999 S1161-R S1070 ;**

- [004] 018 ; R01893 D00 B- 3A N- 5A ; A999 A237 ; S9999 S1456-R ;  
B9999 B5209 B5185 B4740 ;